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Plant Hazard Analysis & Risk Assessment

Model: Leguan 225 | Date: 02/03/2026

Person conducting / reviewing assessment: S. Parlevliet

This Hazard Identification and Risk Assessment document is Model specific. It is based on the knowledge that all new machines of this model were/are produced to the same specification and design. It assumes all examples of this exact model currently in service to be as per the original specification, and to have been and continue to be operated and maintained in accordance with the Manufacturers requirements, and with all applicable statutory and regulatory requirements of an original example of the Model for which it was prepared. This Assessment must be reviewed by all stakeholders as required:

- Having regard to the manufacturers approved options
- Having regard to the general arrangement of miscellaneous equipment or facilities that may be provided on the plant according to the end users requirements or specification
- According to the particular circumstances under which the plant is used and maintained
- As new Hazards are identified and/or as risks are reassessed
- As existing risk control measures are revised or new risk control measures are introduced and implemented
- As and when work procedures are altered or revised
- Having regard to any unauthorised alterations or modifications made to the design or operation of the equipment

Monitor, in conjunction with the design verification process delivered by Engineering Design Innovation have made every attempt to identify all reasonably foreseeable operating circumstances in preparing this Assessment, however no guarantee as to the completeness of this Assessment is provided or implied.
It is the responsibility of Owners, Employers and Operators to identify all hazards associated with the use of this equipment specifically applicable to the task to be carried out and to where the equipment is to be used or located. They must assess the risk potential for each of the identified hazards and ensure that all reasonably practicable steps are taken to ensure those risks are effectively controlled.

- All operators must be trained and competent in the safe use of this particular piece of equipment, and hold appropriate qualifications as required by applicable regulatory requirements
- Operators of the equipment to which this Plant Risk Assessment refers must read and understand the Instructions for Use and Warnings contained within the Operators Manual prior to use
- All Daily Pre-Start Checks, Routine and Periodic Inspections, Maintenance and Repairs to this equipment must be carried out in accordance with the requirements of AS2550.10-2025.

ID	Description of Hazard Potential		Activity	Risk control measures already implemented	Risk	Supplementary risk control measures	Risk score
	Origin	Consequence					
1	Operator Competency						
1.1	Untrained operator, not following proper operating procedures. Distracted operator. Following a poor system of work. Operator working alone.	Crushing Impact Trauma	Set up Operation Maintenance	Operation instructions explained in operator's manual	C4 Extreme	Train operators on safe use of the plant. Operator training should include at least the following: • pre-operation inspections • safe operation of plant • regular maintenance tasks • understanding of plant operation • capabilities and limitations • emergency procedures Do not operate the plant unless proper training has been received. Ensure operator's manual is kept with the plant for reference. Do not operate the plant when distracted, ill, excessively fatigued, or under the influence of drugs or alcohol. Implement appropriate system of work based on manufacturer's recommendations (e.g. operating instructions shown in operator's manual).	B1 Low
1.2	Misuse Unauthorised use of plant	Crushing Impact Trauma	Operation	Operator's manual warns about not using the plant for other than its intended purpose.	C4 Extreme	Do not use the MEWP for any other purpose than its intended use as explained in the operator's manual.	B1 Low

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						Do not operate the plant unless proper training has been received. Keys are not to remain in an unattended machine.	
2	Plant Limitations						
2.1	Plant overload causing - overturning - structural failure	Roll over Crushing	Driving Operation	Maximum Rated Capacity (MRC) displayed on basket.	C4 Extreme	Learn and understand plant limitations. Consider weight of all workers, tools and equipment to be loaded into basket. Do not exceed work platform capacity. Regularly inspect the MEWP as per maintenance schedule to ensure integrity of structural members.	A2 Low
2.2	Excessive incline causing plant to overturn	Roll over	Driving Operation	Inclination control - platform is equipped with inclination sensor which alerts when the inclination of the chassis exceeds the given limits during boom operation or driving. During the inclination alarm, the access platform gives an audible signal and the orange indicator light will flash.	C3 High	Do not drive the plant over ground slopes which exceeds its limitations. Conduct site risk assessment to determine suitability of job site before starting any work.	B2 Low
2.3	Excessive wind force causing overturning.	Roll over	Operation	Follow maximum wind speed rating.	C3 High	Constantly monitor wind speed when operating in wind sensitive areas.	B2 Low

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3	Plant at worksite						
3.1	Collision with - site infrastructure - other plant and/or pedestrians	Crushing Impact	Operation Driving	Motion audible and visual alarm present.	C3 High	Beware of any obstructions around the work area; survey the area before moving the plant. Beware of other plant and persons around the work area, in particular when travelling around corners or blind spots.	B2 Low
3.2	Exhaust fume build-up in poorly ventilated areas.	Asphyxiation	Operation	Some models installed secondary power unit – 240V.	C4 Extreme	Use 240V powered option when available. Ensure there is enough ventilation at the job site whenever combustion engine is used to operate the plant. May require forced mechanical ventilation.	B1 Low
3.3	Plant positioned near or driven over large depressions / obstacles.	Roll over Collapse	Operation Driving		C4 Extreme	Always maintain a safe distance from ditches, trenches or pit walls while operating plant. Plan a route to safely bring the plant to the job site. Avoid driving over large obstacles or depressions. Assess the ground conditions before setting up the plant: use dunnage under outriggers if necessary.	B2 Low

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						Deploy outriggers close to ground to help prevent roll over.	
4	Operation						
4.1	Driving on steep ground	Overturning Crushing	Driving Set up	Follow maximum inclination limits set by manufacturer. Found in plant manual.	A5 High	Carry out job site risk assessment to determine suitability of the site before commencing any work. Avoid driving on steep ground; find alternative routes whenever possible. Do not stand on the lower side of the plant while driving on steep ground. Never drive across steep ground, always drive with the tracks parallel to ground inclination. Deploy outriggers when driving across steep surfaces.	A1 Low
4.2	Operator control	Woker falls from basket Roll over Impact	Operation	Model comes with option of remote control.	C5 Extreme	Operate the drive control levers gently in order to avoid abrupt and jerky movements. When driving, pay special attention to stability and the dimensions, especially the length, of the machine. Wear safety harnesses and keep them fastened whenever operating the machine.	B2 Low

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	Origin	Consequence					
4.3	Damage to tracks	Overturning Crushing Impact	Operation	Prestart inspection as per manufacturers recommendation.	C3 High	Avoid driving on the following terrains or work sites • Environments with crushed stone, iron bars, scrap metal or similar recycling material • Daily/continuous driving on asphalt or concrete • Work sites with sharp objects, such as broken stones or concrete waste • Work sites with corrosive substances (fuels, oil, salt or fertilisers)	B2 Low
4.4	Uncontrolled movement of plant components i.e. outriggers	Crushing Impact Shearing	Set up Operation Maintenance Cleaning Troubleshoot	Prestart inspection as per manufacturers recommendation. All override valves should be returned, and lead seal installed.	C3 High	Isolate power to plant and remove the main switch key when performing maintenance and cleaning tasks. Stay clear of components which may swing or drop unexpectedly. Maintenance to be carried out by a competent person. Pay attention to crush and shear hazard decals to machine.	B2 Low
4.5	Inadvertent operation of controls	Crushing Impact	Set up Operation Maintenance Emergency	Deadman circuit installed by manufacturer.	C5 Extreme	Ensure deadman operation during prestart. Always depress the emergency stop button whenever the plant is not being operated.	B2 Low

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4.6	Lowering / Raising - outriggers - work platform Moving parts	Crushing Impact	Set up Operation Maintenance Troubleshoot	Decals indicating crush hazards affixed to plant.	C4 Extreme	Ensure crush hazard decals are affixed to plant. Take appropriate safety measures e.g. barricades to keep people away from plant's operating areas. Ensure all persons are clear of moving components before performing a movement. Maintenance to be carried out by a competent person.	B2 Low
4.7	Entering/exiting the work platform (basket)	Falls	Operation	Use fold down step to help gain access.	C3 High	Ensure basket is horizontal and if necessary, adjust it by means of the special controls prior to moving from stowed position. Do not move between the basket and a structure outside the machine, machine stability could be jeopardised. Workers and equipment must enter and exit the basket only when it is at ground level. Always face inwards and maintain 3-points of contact when entering or exiting the basket.	B1 Low
4.8	Falling objects	Falling objects Impact	Operation	Barricade work area under fall zone to create a no-go zone.	C3 High	Secure items such as tools and consumables which could fall from basket. Lay items flat and evenly across the floor of the basket.	B2 Low

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4.9	Falling from basket	Fall Death	Operation	Drop gate. Lanyard attachment point.	C5 Extreme	Check that the sliding bar which protects the opening of the basket is closed and positioned correctly. Safety harness to be worn at all times and secured to the designated hook in the basket.	B2 Low
4.10	Raising boom	Crush between fixed structure and basket	Operation	Check surroundings prior to starting and continually throughout job.	C4 Extreme	Be aware of potential crush hazards in the direction of movement before moving the work platform. Hard hat may be required if working near overhead obstructions.	B2 Low
4.11	Faulty/out of order, or poorly maintained plant	Crushing Impact Trauma	Operation Emergency Maintenance	Operator's manual outlines plant maintenance schedule. Current maintenance inspections up to date as per manufacturers recommendation.	B4 High	Always perform pre-operation inspection before operating the plant. Implement 'tag out' procedure to isolate faulty/out of order plants. Do not use an 'out of order' plant. Record all faults in logbook. Perform plant maintenance as per manufacturer's maintenance schedule. Keep maintenance records / plant logbook up to date.	B1 Low
4.12	Plant modifications after completion of risk assessment.	Crushing Overturning	Operation Set up		C5 Extreme	Ensure modifications made to the plant are inspected, assessed, and approved by a competent person. Review hazard analysis and risk	B1 Low

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	Origin	Consequence					
						assessment after plant modifications.	
5	Transport						
5.1	Loading and unloading – driving on	Roll over Crushing	Transport	Use remote controls always as they provide a safe operating distance for loading / unloading. Use low speed / low engine RPM on slopes / ramps.	C4 Extreme	Follow appropriate loading procedures including using weight rated ramps, have ramps at a low inclination, all person clear from the loading zone and placing the heavy end towards the front of the tray or tow hitch on a trailer.	B2 Low
5.2	Loading and unloading – lifting on	Crush Impact	Transport Lifting	Lifting procedure included in Operator's Manual.	C5 Extreme	Follow appropriate lifting procedure.	B2 Low
5.3	Failure of lifting slings / chains used for lifting or tying down / tie down straps	Roll over Crushing	Transport Lifting	Plant is fitted with designated lifting and tie down points.	C5 Extreme	Use tie-down points provided on the plant to secure it for transportation. Ensure lifting slings and tie down straps are in good condition. Ensure lifting slings have a SWL suited to the load.	B2 Low
6	Plant Failure						
6.1	Plant failure including: - malfunction of control devices - structural failure of machine components	Crushing Impact	Operation	Follow routine maintenance inspections by qualified person as per manufacturers recommendation. Use designated tie down points.	B5 Extreme	Carry out pre-operational function tests of safety related functions at the start of every shift. Beware of risks associated with inadvertent operation of the machine, avoid compromising machine positions.	B2 Low

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	Origin	Consequence					
	- failure of lift / tie down points			Prestart inspection as per manufacturers recommendation.		Familiarise with location of emergency stop buttons. Regularly inspect the MEWP as per maintenance schedule to ensure integrity of structural members.	
6.2	Burst hydraulic hose	Crushing Overturning Burn Skin irritation	Set up Operation Maintenance	Counter-balance valves fitted on lift and extension cylinders.	A3 Medium	Check hydraulic hose condition during periodic maintenance. Report and "tag out of service" if identified.	A2 Low
6.3	Excessive hydraulic oil pressure.	Impact Crushing	Set up Operation	Plant fitted with pressure relief valve.	C3 High	Check pressure settings during preventative maintenance.	A1 Low
7	Electrical						
7.1	Damaged power cables, components.	Electrocution Shock Fire	Set up Operation Maintenance Troubleshoot Emergency	RCD fitted to 240V circuit. Fuse protection on electrical circuits	C1 Low	Ensure plant and extension cord are electrically tested and tagged as per AS 3760. Do not operate/use equipment with an expired test tag. Ensure inline RCD is used when charging the batteries. Visually inspect the plant and extension lead before resetting the thermal fuse and RCD.	B1 Low
7.2	Earthing fault	Electrocution Shock Fire	Set up Operation Maintenance	RCD fitted to machine 240V circuit.	C4 Extreme	Use appropriate means to supply power to the plant. That is, use extension leads with neutral, live and EARTH wire and pin. Ensure the plant's appliance inlet is regularly tested and tagged as per AS 3760.	A2 Low

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	Origin	Consequence					
						Do not operate a plant with an expired electrical safety tag. Visually inspect the plant and extension lead before turning the power ON.	
7.3	Contact with live conductors under plant cover	Shock Electrocution	Emergency Maintenance		C5 Extreme	Do not touch terminals/wires inside the electric cabinet. Keep electric cabinet closed and locked at all times.	A2 Low
7.4	Power failure (flat battery)	Crushing Being runover	Operation Emergency	Hydraulic valve bank over centre type when power is removed. Drive system brake is applied when power is removed.	C4 Extreme	Prepare emergency procedure for power failure.	C1 Low
7.5	Battery charging	Burn Fire Explosion	Maintenance		C5 Extreme	Charge in an area with good ventilation, away from ignition sources.	A3 Medium
7.6	Battery handling	Burn Fire Explosion	Maintenance	Isolate power by turning off factory isolator.	C5 Extreme	When handling the battery, wear protective clothing and eyewear. Avoid contact with clothes or skin; if electrolyte gets on your skin or clothes, flush it with a large quantity of water. In case of contact with eyes, flush with a lot of water for at least 15 minutes and seek medical assistance immediately.	3B Low

ID	Description of Hazard Potential		Activity	Risk control measures already implemented	Risk	Supplementary risk control measures	Risk score
	Origin	Consequence					
						Do not touch the battery terminals or cables with tools that may cause spark emissions. In order to avoid spark emissions, always disconnect the (-) cable first and connect it last. Use appropriate lifting techniques, perform 2 person lifting technique for heavy or awkward to reach parts.	
7.7	Lightning	Electrocution Shock	Set up Operation		A5 High	Do not use the plant during a thunderstorm.	A1 Low

RISK MATRIX							ACTION	HEIRACHY OF CONTROLS
		CONSEQUENCE					**EXTREME –** Do not proceed, until further control measures are implemented to lower the risk. Senior management attention required. **HIGH –** Review and introduce additional controls to lower level of risk. Needs senior management attention. **MEDIUM –** Monitor and maintain supervision and controls. Specify management responsibility. **LOW –** Monitor and manage by routine procedures and monitoring.	1. Elimination – controlling the hazard at the source 2. Substitution – e.g. replacing one substance or activity with a less hazardous one 3. Isolation – e.g. use of barriers to shield or isolate the hazard, enclosures for noisy machinery, installing guards on machinery 4. Engineering – e.g. design and install equipment to counteract the hazard 5. Administration – policies and procedures for safe work practices 6. Personal Protective Equipment – e.g. respirators, ear plugs, face masks, safety glasses, safety shoes
		1. Insignificant	2. Minor	3. Moderate	4. Major	5. Catastrophic		
LIKELIHOOD	**E. Almost Certain** Is expected to occur immediately or within a short timeframe	HIGH	HIGH	EXTREME	EXTREME	EXTREME		
	D. Likely Will probably occur in most circumstances	MEDIUM	HIGH	HIGH	EXTREME	EXTREME		
	C. Possible Could happen and has occurred here or elsewhere	LOW	MEDIUM	HIGH	EXTREME	EXTREME		
	B. Unlikely Unlikely to occur	LOW	LOW	MEDIUM	HIGH	EXTREME		
	A. Rare Not expected to occur	LOW	LOW	MEDIUM	HIGH	HIGH		

CONSEQUENCE DESCRIPTORS			
SEVERITY	**SAFETY**	**ENVIRONMENT**	**BUSINESS**
5. Catastrophic	Potential for incident resulting in serious damage and/or fatality	The aspect is legally or contract regulated and has the potential for a disastrous long term impact resulting in prosecution.	Loss > $1M
4. Major	Potential for incident resulting in serious damage and/or permanent disabling illness or injury	The aspect is legally or contract regulated and has the potential for a serious long term impact resulting in prosecution.	Loss of service provision
3. Moderate	Potential for incident resulting in significant damage and/or temporary disabling illness or injury	Significant environmental aspect with short term impact resulting in improvement notice.	Loss $100K - $1M
2. Minor	Potential for incident resulting in moderate damage and/or requiring medical treatment.	The aspect is legally or contract regulated and has the potential for a moderate reversible short term impact resulting in an improvement notice.	Prolonged reduction in service provision or productivity
1. Insignificant	Potential for incident resulting in minor damage and/or injury requiring first aid treatment	The aspect is not legally or contract regulated and has the potential for a minor negligible impact.	Loss $10K - $100K